Theta Mathematics spreadsheets

These spreadsheets are Microsoft Excel worksheets. Each spreadsheet can either be opened and run, or saved to any location on your computer or network.

Worked examples

36 Parabola by plotting points.xls
56 Absolute value graph.xls
75 Marathon times.xls
78 Exponential graph.xls
88 Graph of log to base 3.xls
105 Graph of sin(x) in degrees.xls
108 sin graph using radians.xls
128 Picturing a solution to a trig equation (degrees).xls
399 Standard deviation for individual data (result).xls
420 normdist result.xls
420 normdist differences result.xls
431 norminv.xls
451 Normal simulation (histogram).xls

Simulations/interactive

124 Clyde average daily temperatures.xls
420 Normal probability calculator.xls
431 Inverse normal calculator.xls
439 Heads or Tails.xls
440 Day of the week simulation (20 trials).xls
440 Day of the week simulation (1000 trials).xls
441 Waiting for heads.xls
441 Fives and sixes (200 tosses) simulation.xls
442 Coloured cards simulation.xls
444 World Series simulation.xls
445 Boy or girl in 4-child family simulation (1000 trials).xls
445 Three members of a family simulation (1000 trials).xls
445 The gamblers simulation (1000 trials).xls
446 Chinese Lunar Calendar simulation (1000 trials).xls
447 Zodiac simulation (1000 trials).xls
447 Gemini simulation (1000 trials).xls
447 Dartboard score simulation.xls
448 Overbooked car-ferry simulation.xls
448 Triangle inequality simulation.xls
449 Right-angled, acute & obtuse triangle simulation.xls
451 Normal simulation (histogram).xls
452 Normal simulation (Answers).xls
452 Soft drink simulation (500 values).xls
452 Excess baggage simulation (400 values).xls
456 Predator-prey simulation 1 (cats and mice).xls
456 Predator-prey simulation 2 (sharks and fish).xls
457 Predator-prey simulation 3 (ferrets and fantails).xls
457 Predator-prey simulation 4 (toheroa and off-road vehicles).xls

Data sets

388 Regions of NZ (for drowning statistics).xls
401 Christchurch temperature data.xls
404 Coffee cups.xls

Answers

48 Roller-coaster (Answers).xls
59 Reading age (Answers).xls
70 Dance floor (Answers).xls
79 Ex 5-05 #5ab (Answers).xls
81 Ex 5-07 #4 (Answers).xls
85 Exponential and log graph investigation (Answers).xls
90 Different bases for log graphs (Answers).xls
112 Simple trig graphs using radians (Answers).xls
124 Clyde average daily temperatures.xls
141 Ex 8-05 Qn 1 (Answers).xls
141 Ex 8-05 Qn 2 (Answers).xls
157 tan graph with angles in degrees.xls
182 Croquet-hoop (Answers).xls
182 Penalty-spot (Answers).xls
190 Polygon society (Answers).xls
205 Water-trough calculations.xls
251 Play and rewind (Answers).xls
265 Quadratic equation solver (Answers).xls
270 Tartaglia and Cardano cubic equation solver (Answers).xls
298 Shrinking chord (Answers).xls
331 Combining trapeziums (Answers).xls
351 Napier-Hastings warehouse (Answers).xls
358 Horse-paddock (Answers).xls
401 Christchurch temperature data (Answers).xls
404 Coffee cups (Answers).xls
426 Witch of Agnesi (Answers).xls
441 Fives and sixes (200 tosses) simulation.xls
442 Coloured cards simulation.xls
445 Boy or girl in 4-child family simulation (1000 trials).xls
445 Three members of a family simulation (1000 trials).xls
445 The gamblers simulation (1000 trials).xls
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447 Zodiac simulation (1000 trials).xls
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456 Predator-prey simulation 1 (cats and mice).xls
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457 Predator-prey simulation 4 (toheroa and off-road vehicles).xls
481 Acoustic concert hall (Answers).xls
493 Roller-coaster (Answers).xls
495 Reading age (Answers).xls
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501 Ex 5-05 #5ab (Answers).xls
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503 Exponential and log graph investigation (Answers).xls
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512 Simple trig graphs using radians (Answers).xls
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